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10/585,354	07/06/2006	Osmo Pikkala	1034456-000039	2540
21839	7590	10/24/2008		
BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE BOX 1404			FISHMAN, MARINA	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			2832	
NOTIFICATION DATE		DELIVERY MODE		
10/24/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary	Application No. 10/585,354	Applicant(s) PIKKALA ET AL.
	Examiner Marina Fishman	Art Unit 2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(o).

Status

- 1) Responsive to communication(s) filed on 03 September 2008.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-8 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

General status

1. This is a First Action on the Merits for RCE. Claims 1 - 8 are pending in the case and are being examined.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Finland on 01/19/2004. It is noted, however, that applicant has not filed a certified copy of the application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 112

3. Claim1 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification fails to describe Claim 1, recites "the first connector ... configured to conduct load current in a conducting state of the switching device."

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Morel et al. [US 5,357,066] in view of Leone et al. [US 5,448,033].

Morel et al. disclose a switching device comprising:

- a switching device comprising a frame [8];
- a first connector [7a]
- a second connector [7b];
- the first connector and the second connector extending from inside the frame to outside the frame, the portion of the first connector remaining inside the frame is configured to conduct load current in a conducting state of the switching device;
- means [3] for connecting the first and the second connector electrically to one another; and one or more gas flow openings [not numbered] provided in the frame and arranged for a gas flow produced by a switching event.

Regarding Claim 1, Morel et al. disclose all the claimed elements except for a portion of the first connector remaining inside the frame comprises a hole. Leone et al. discloses a first connector [40] remaining inside the frame comprises a hole [44, 64; Figures 2, 6]. It would have been obvious to one of ordinary skill in the art at the time the invention is made to provide a hole in the first connector of Morel et al., as suggested by Leone et al., in order to split the current [Leone et al., column 4, lines 32-34]. It is noted that, though the holes in the connector of

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Leon et al. are not intended for allowing the gas flow, they are capable of allowing the gas flow.

6. Claims 1 - 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lemmer et al. [US 4,401,863] in view of Leone et al. [US 5,448,033].

Lemmer et al. discloses a switching device comprising:

- a switching device comprising a frame [1, 2]
- a first connector [3];
- a second connector [4], the first connector and the second connector extending from inside the frame to outside the frame, the portion of the first connector remaining inside the frame is configured to conduct load current in a conducting state of the switching device;
- means [7, 18] for connecting the first and the second connector electrically to one another, and one or more gas flow openings [not numbered] provided in the frame and arranged for a gas flow produced by a switching event.

Lemmer et al. disclose all the claimed elements except for one or more gas openings and a portion of the first connector remaining inside the frame, the first connector comprises a hole. Lemmer et al. also disclose arc quenching plates [21], and gap between the means for connecting [7, 18] and the plates [Figure 6] on either side of means for connecting the contacts, which would form openings for the gases. Leone et al. discloses a first connector [40] remaining inside the frame comprises a hole [Figures 2, 6; 44, 64]. It would have been

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obvious to one of ordinary skill in the art at the time the invention is made to provide a hole in the first connector of Lemmer et al., as suggested by Leone et al., in order to split the current [Leon et al., column 4, lines 32-34]. It is noted that, though the holes in the connector of Leon et al. are not intended for allowing the gas flow, they are capable of allowing the gas flow.

Regarding Claim 2, the frame includes an upper part and a lower part, the lower part being arranged to reside in the vicinity of frame structures of a mounting space, such as a switchgear cubicle, and that wherein each of said gas flow openings provided in the frame resides farther from the lower part of the switching device than the first connector and the second connector. Regarding Claims 3 and 6, Lemmer et al. disclose the first connector and the second connector are identical with one another. Regarding Claims 4, 5, 7 and 8, Lemmer et al. disclose the claimed invention except for specific dimensions of the gas flow openings. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide proper size of gas opening in a proper orientation, since it has been held that change in size or shape, only requires routine skill in the art. [*In Re Rose* 220 F2d 1048, 189 USPQ 143 (CCPA 1976) and *In Re Dailey* 357 F2d 669, 149 USPQ 47 (CCPA 1966). The motivation for providing the gas opening is to properly exhaust the gases away from the contacts.

Response to Arguments

7. Applicant's arguments with respect to claims 1 - 8 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Fishman whose telephone number is (571)272-1991. The examiner can normally be reached on 7-5 M-T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvin G Enad/
Supervisory Patent Examiner, Art Unit 2832

/Marina Fishman/
Examiner, Art Unit 2832
October 6, 2008